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(54) Title: CHIMERIC CANNULAE PROTEINS, NUCLEIC ACIDS ENCODING THEM AND METHODS FOR MAKING AND USING THEM

(57) Abstract: The invention provides chimeric cannulae polypeptides and nanotubules and methods for making and using them. In one aspect, the invention provides compositions and methods for the identification, separation or synthesis of proteins or ligands. In one aspect, the invention provides compositions and methods for making and using nanotubules. In one aspect, the invention provides compositions and methods for the selection and purification of chiral compositions from racemic mixtures. In one aspect, the chimeric proteins and polymers (e.g., nanotubules, tubules, bundles, balls, fibers, filaments, sheets, threads, textiles) of the invention comprise a detectable moiety, e.g., a fluorescent protein. In one aspect, the invention provides a flame retardant or heat resistant device comprising a sheeting, a covering, a coating or an adhesive comprising a chimeric protein of the invention.